

## PATENT COOPERATION TREATY

**PCT**INTERNATIONAL SEARCH REPORT  
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 010941-0003	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below
International application No. <b>PCT/CA2004/002147</b>	International filing date ( <i>day/month/year</i> ) 16 December 2004 (16-12-2004)	Priority date ( <i>day/month/year</i> ) 17 December 2003 (17-12-2003)
Applicant FERMAG INC. ET AL		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows :

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/002147

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: C09C 1/22, C22B 7/02, C09C 1/00, C09C 3/00, C22B 3/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: C09C 1/22, C22B 7/02, C09C 1/00, C09C 3/00, C22B 3/04CPC: 6/194, 6/210, 53/140, 53/155, 53/256, 53/260-53/270, 53/288, 53/305, 53/326, 53/354, 53/370,  
117/47.4-117/48.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms)

Delphion, USPTO, Qpat, Canadian Patents Database, Google

- by keyword: "EAF", "steelmill", "pigment", "ferrite", "magnetite"
- by applicant
- by inventor

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
X Y	JEBRAK MICHEL, MAURICE MORENCY and DENISE FONTAINE: "Caracterisation et technologie de traitement des poussières d'acierage a Sorel -Tracy", Quebec Department of the Environment - St. Lawrence Centre, Environment Canada, March 1993 (03-1993) *chapters 8 and 9*	1-21 22
X	CA 1184363 A (BAYER AKTIENGESSELLSCHAFT) 26 March 1985 (26-03-1985) *claims 1-3*	23-26, 30

[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

- \* Special categories of cited documents :
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

"X"

"Y"

"&amp;"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

document member of the same patent family

Date of the actual completion of the international search

16 March 2005 (16-03-2005)

Date of mailing of the international search report

07 April 2005 (07-04-2005)

Name and mailing address of the ISA/CA  
Canadian Intellectual Property Office  
Place du Portage I, C114 - 1st Floor, Box PCT  
50 Victoria Street  
Gatineau, Quebec K1A 0C9

Authorized officer  
Sonia John (819) 934-3599

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/002147

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
X	CA 1331274 C (BAYER AKTIENGESELLSCHAFT) 09 August 1994 (09-08-1994) *page 1, lines 10-15*	27, 28, 31
X	CA 1186885 A (BAYER AKTIENGESELLSCHAFT) 14 May 1985 (14-05-1985) *page 9, line 34 to page 10, line 13*	27, 28, 31
Y	*page 3, lines 18-20* *page 4, lines 25-26* *page 8, lines 21-31*	22
A	CA 2228562 A1 (RECUPAC) 20 February 1997 (20-02-1997) *cited by Applicant* *whole document*	1-28, 30, 31
A	CA 2400854 A1 (RECUPAC) 30 August 2001 (30-08-2001) *whole document*	1-28, 30, 31

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CA2004/002147

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA1184363	26-03-1985	AU557226 B2	11-12-1986
		AU8830382 A	24-03-1983
		BR8205326 A	23-08-1983
		CA1184363 A1	26-03-1985
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*Continued on supplemental page*

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/002147*Continued from patent family annex*

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2228562	20-02-1997	AT181096T T	15-06-1999
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		CA2228562 A1	20-02-1997
		DE69602850D D1	15-07-1999
		DE69602850T T2	09-12-1999
		DK853648T T3	13-12-1999
		EP0853648 A1	22-07-1998
		ES2133984T T3	16-09-1999
		FR2737503 A1	07-02-1997
		GR3031155T T3	31-12-1999
		JP2002502435T T	22-01-2002
		TW400365 B	01-08-2000
		US6022406 A	08-02-2000
		WO9706215 A1	20-02-1997
		ZA9606474 A	19-02-1997